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UCISCO

A LINDE SERVICE COMPANY

HAZARD COMMUNICATION DATA

NOTICE: Make certain that the information contained in this envelope reaches each person who may use or come in contact with the products and services covered herein.

THIS ENVELOPE CONTAINS:

_____ NITROGEN SERVICES HAZARD DATA

_____ SANDJET® SERVICES HAZARD DATA

_____ mini-SANDJET® SERVICES HAZARD DATA

_____ UCAR® INTERNAL PIPELINE COATING SERVICES HAZARD DATA

_____ _____
OTHER SERVICES

_____ _____
OTHER SERVICES

_____ _____
OTHER SERVICES

_____ _____
OTHER SERVICES

Date Envelope Prepared
or Last Checked _____

FOR ADDITIONAL INFORMATION CONTACT

HER 01933

OR

UCISCO, 222 PENNBRIGHT, HOUSTON, TEXAS 77090
(713) 872-2100

L-4630-E
December 1992

MATERIAL SAFETY DATA SHEET

An explanation of the terms used herein may be found in OSHA 29 CFR 1910.1200, available from OSHA regional or area offices.
(Essentially similar to US Department of Labor Form OMB No. 1218-0072)
Do Not Duplicate This Form. Request an Original.

PRAXAIR

I. PRODUCT IDENTIFICATION

PRODUCT	Nitrogen (Cryogenic Liquid)		
CHEMICAL NAME	Nitrogen	**SYNONYMS**	Not applicable
FORMULA	N_2	**CHEMICAL FAMILY**	Not applicable
		MOLECULAR WEIGHT	28.01
TRADE NAME	Liquid Nitrogen		

II. HAZARDOUS INGREDIENTS

For mixtures of this product request the respective component Material Data Safety Sheets. See Section IX.

MATERIAL (CAS NO.)	Wt (%)	1992-1993 ACGIH TLV-TWA (OSHA-PEL)
Nitrogen (7727-37-9)	100	Simple asphyxiant (None currently established)

III. PHYSICAL DATA

BOILING POINT, 760 mm. Hg	−195.8°C (−320.4°F)	**FREEZING POINT**	−210°C (-345.8°F)
SPECIFIC GRAVITY (H_2O = 1)1.	0.808 @ −195.8°C	**VAPOR PRESSURE AT 20°C.**	Gas
VAPOR DENSITY (air = 1)	0.967	**SOLUBILITY IN WATER, % by wt.**	Negligible
PERCENT VOLATILES BY VOLUME	100	**EVAPORATION RATE (Butyl acetate = 1)**	High

APPEARANCE AND ODOR Colorless, odorless liquid.

EMERGENCY PHONE NUMBER

IN CASE OF EMERGENCIES involving this material, further information is available at all times:

Call CHEMTREC 800-424-9300 only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals. For routine information contact your supplier.

This product is subject to the Pennsylvania Worker and Community Right-To-Know Act (35 P.S. Sections 7301-7320).

Praxair requests the users of this product to study this Material Safety Data Sheet (MSDS) and become aware of product hazards and safety information. To promote safe use of this product a user should (1) notify its employees, agents and contractors of the information on this MSDS and any product hazards and safety information, (2) furnish this same information to each of its customers for the product, and (3) request such customers to notify their employees and customers for the product of the same product hazards and safety information.

PRAXAIR, INC. Printed on recycled paper.

L-4630-E

HER 01934

IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: See Section II.

EFFECTS OF A SINGLE (ACUTE) OVEREXPOSURE:

SWALLOWING—Frostbite may result from contact with liquid.

SKIN ABSORPTION—No evidence of adverse effects from available information.

INHALATION—Asphyxiant. Moderate concentrations may cause headache, drowsiness, dizziness, excitation, excess salivation, vomiting and unconsciousness. Lack of oxygen can cause death.

SKIN CONTACT—No harmful effect expected from vapor. Liquid may cause frostbite.

EYE CONTACT—No harmful effect expected from vapor.

EFFECTS OF REPEATED (CHRONIC) OVEREXPOSURE: No evidence of adverse effects from available information.

OTHER EFFECTS OF OVEREXPOSURE: Contact with liquid may cause frostbite.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: The toxicology and the physical and chemical properties of the material do not suggest that overexposure is likely to aggravate existing medical conditions.

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH HAZARD EVALUATION: None currently known.

EMERGENCY AND FIRST AID PROCEDURES:

SWALLOWING—This product is a gas at normal temperature and pressure.

SKIN CONTACT—For exposure to liquid, immediately warm frostbite area with warm water (not to exceed 105°F). In case of massive exposure, remove clothing while showering with warm water. Call a physician.

INHALATION—Remove to fresh air. Give artificial respiration if not breathing. Give oxygen if breathing is difficult. Call a physician.

EYE CONTACT—In case of splash contamination, immediately flush eyes thoroughly with water for at least 15 minutes. See a physician, preferably an ophthalmologist, immediately.

NOTE TO PHYSICIAN: *There is no specific antidote. Treatment should be directed at the control of symptoms and the clinical condition.*

V. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (test method)	Not applicable	**AUTOIGNITION TEMPERATURE**	Not applicable
FLAMMABLE LIMITS IN AIR, % by volume	**LOWER** Not applicable	**UPPER**	Not applicable

EXTINGUISHING MEDIA: Nitrogen cannot catch fire. Use media appropriate for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate all personnel from danger area. Immediately deluge containers with water spray from maximum distance until cool. Move containers away from fire area if without risk. Do not discharge water sprays into Liquid Nitrogen.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Liquid or vapor cannot catch fire. Closed container may rupture due to heat of fire. Liquid Nitrogen will freeze water rapidly. Containers are provided with pressure-relief devices that are designed to vent the contents when they are exposed to elevated temperatures. Liquid causes cryogenic "burns" (frostbite-like injury; see Section IV).

VI. REACTIVITY DATA

STABILITY	
UNSTABLE	**STABLE**
	X

CONDITIONS TO AVOID: Heat (see Section IX).

INCOMPATIBILITY (materials to avoid): None currently known.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

HAZARDOUS POLYMERIZATION	
May Occur	Will not Occur
	X

CONDITIONS TO AVOID: None currently known.

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Immediately evacuate personnel from danger area. Allow spilled liquid to evaporate. Shut off leak if without risk. Move leaking assembly to ventilated area or ventilate area of leak. Use self-contained breathing apparatus where needed. Test area, especially confined areas, for sufficient oxygen content prior to permitting re-entry of personnel.

WASTE DISPOSAL METHOD: Slowly release into atmosphere outdoors.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type): None required under normal use. However, air supplied respirators are required while working in confined spaces with this product. The respiratory protection use must conform with OSHA rules as specified in 29 CFR 1910.134.

VENTILATION	**LOCAL EXHAUST**—Use local exhaust system, if necessary, to prevent the build up of an oxygen deficient atmosphere.
	MECHANICAL (general)—Acceptable
	SPECIAL—None
	OTHER—None

PROTECTIVE GLOVES: Loose-fitting cryogenic gloves.

EYE PROTECTION: Select in accordance with OSHA 29 CFR 1910.133.

OTHER PROTECTIVE EQUIPMENT: Metatarsal shoes for cylinder handling. Protective clothing where needed. Cuffless trousers should be worn outside the shoes. Select in accordance with OSHA 29 CFR 1910.132 and 1910.133.

IX. SPECIAL PRECAUTIONS

WARNING: Extremely cold liquid and gas. Contact with liquid or cold gas causes severe frostbite. Vapor can cause rapid suffocation due to oxygen deficiency. Protect containers against physical damage. Store and use with adequate ventilation. Close valve when not in use and when empty. Use piping and equipment adequately designed to withstand pressures and temperatures to be encountered. Do not get liquid in eyes, on skin or clothing.

MIXTURES: When two or more gases, or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

Be sure to read and understand all labels and other instructions supplied with all containers of this product.

NOTE: Compatibility with plastics should be confirmed prior to use. For safety information on general handling of compressed gas cylinders, obtain a copy of pamphlet P-1, "Safe Handling of Compressed Gas in Containers," pamphlet P-12, "Safe Handling of Cryogenic Liquids," and pamphlet P-9, "The Inert Gases, Argon, Nitrogen and Helium," from the Compressed Gas Association, Inc., 1725 Jefferson Davis Highway, Suite 1004, Arlington, VA 22202.

OTHER HANDLING AND STORAGE CONDITIONS: Never work on a pressurized system. If there is a leak, close the cylinder valve, blow down the system by venting to a safe place, then repair the leak.

PRAXAIR

GENERAL OFFICES
Praxair, Inc.
39 Old Ridgebury Road
Danbury, CT 06810-5113

L-4631-D
December 1992

MATERIAL SAFETY DATA SHEET

An explanation of the terms used herein may be found in OSHA 29 CFR 1910.1200, available from OSHA regional or area offices.
(Essentially similar to US Department of Labor Form OMB No. 1218-0072)
Do Not Duplicate This Form. Request an Original.

PRAXAIR

I. PRODUCT IDENTIFICATION

PRODUCT	Nitrogen		
CHEMICAL NAME	Nitrogen	**SYNONYMS**	Not applicable
FORMULA	N_2	**CHEMICAL FAMILY**	Not applicable
		MOLECULAR WEIGHT	28.01
TRADE NAME	Nitrogen		

II. HAZARDOUS INGREDIENTS

For mixtures of this product request the respective component Material Data Safety Sheets. See Section IX.

MATERIAL (CAS NO.)	Wt (%)	1992-1993 ACGIH TLV-TWA (OSHA-PEL)
Nitrogen (7727-37-9)	100	Simple asphyxiant (None currently established)

III. PHYSICAL DATA

BOILING POINT, 760 mm. Hg	−195.8°C (−320.46°F)	**FREEZING POINT**	−210°C (−345.8°F)
SPECIFIC GRAVITY (H_2O = 1)1.	Gas	**VAPOR PRESSURE AT 20°C.**	Gas
VAPOR DENSITY (air = 1)	0.967	**SOLUBILITY IN WATER, % by wt.**	Negligible
PERCENT VOLATILES BY VOLUME	100	**EVAPORATION RATE (Butyl acetate = 1)**	Not applicable

APPEARANCE AND ODOR *Colorless, odorless gas at normal temperature and pressure.*

EMERGENCY PHONE NUMBER

IN CASE OF EMERGENCIES involving this material, further information is available at all times:

Call CHEMTREC 800-424-9300 only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals. For routine information contact your supplier.

This product is subject to the Pennsylvania Worker and Community Right-To-Know Act (35 P.S. Sections 7301-7320).

Praxair requests the users of this product to study this Material Safety Data Sheet (MSDS) and become aware of product hazards and safety information. To promote safe use of this product a user should (1) notify its employees, agents and contractors of the information on this MSDS and any product hazards and safety information, (2) furnish this same information to each of its customers for the product, and (3) request such customers to notify their employees and customers for the product of the same product hazards and safety information.

PRAXAIR, INC.

Printed on recycled paper.

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IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: See Section II.

EFFECTS OF A SINGLE (ACUTE) OVEREXPOSURE:

SWALLOWING—This product is a gas at normal temperature and pressure.

SKIN ABSORPTION—No evidence of adverse effects from available information.

INHALATION—Asphyxiant. Moderate concentrations may cause headache, drowsiness, dizziness, excitation, excess salivation, vomiting and unconsciousness. Lack of oxygen can cause death.

SKIN CONTACT—No harmful effect expected from vapor. Liquid may cause frostbite.

EYE CONTACT—No harmful effect expected from vapor.

EFFECTS OF REPEATED (CHRONIC) OVEREXPOSURE: No evidence of adverse effects from available information.

OTHER EFFECTS OF OVEREXPOSURE: Contact with liquid may cause frostbite.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: The toxicology and the physical and chemical properties of the material do not suggest that overexposure is likely to aggravate existing medical conditions.

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH HAZARD EVALUATION: None currently known.

EMERGENCY AND FIRST AID PROCEDURES:

SWALLOWING—This product is a gas at normal temperature and pressure.

SKIN CONTACT—For exposure to liquid, immediately warm frostbite area with warm water (not to exceed 105°F). In case of massive exposure, remove clothing while showering with warm water. Call a physician.

INHALATION—Remove to fresh air. Give artificial respiration if not breathing. Give oxygen if breathing is difficult. Call a physician.

EYE CONTACT—In case of splash contamination, immediately flush eyes thoroughly with water for at least 15 minutes. See a physician, preferably an ophthalmologist, immediately.

NOTE TO PHYSICIAN: There is no specific antidote. Treatment should be directed at the control of symptoms and the clinical condition.

NOTE: Suitability for use as a component in underwater breathing gas mixtures is to be determined by or under the supervision of personnel experienced in the use of underwater breathing gas mixtures and familiar with the effects, methods, frequency and duration of use, hazards, side effects and precautions to be taken.

V. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (test method)	Not applicable	**AUTOIGNITION TEMPERATURE**	Not applicable
FLAMMABLE LIMITS IN AIR, % by volume	**LOWER** Not applicable	**UPPER**	Not applicable

EXTINGUISHING MEDIA: Nitrogen cannot catch fire. Use media appropriate for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate all personnel from danger area. Immediately deluge containers with water spray from maximum distance until cool, then move containers away from fire area if without risk.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Gas cannot catch fire. Container may rupture due to heat of fire. No part of a container should be subjected to a temperature higher than 52°C (approximately 125°F). Most containers are designed to vent contents when they are exposed to elevated temperature.

VI. REACTIVITY DATA

STABILITY	
UNSTABLE	**STABLE**
	X

CONDITIONS TO AVOID: See Section IX.

INCOMPATIBILITY (materials to avoid): Under certain conditions, nitrogen can react violently with lithium, neodymium, titanium, ozone.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

HAZARDOUS POLYMERIZATION	
May Occur	Will not Occur
	X

CONDITIONS TO AVOID: None currently known.

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Evacuate all personnel from danger area. Use self-contained breathing apparatus where needed. Shut off leak if without risk. Ventilate area of leak or move leaking container to well-ventilated area. Test area, especially confined areas, for sufficient oxygen content prior to permitting re-entry of personnel.

WASTE DISPOSAL METHOD: Slowly release into atmosphere. Discard any product, residue, disposable container or liner in an environmentally acceptable manner, in full compliance with federal, state and local regulations.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type): None required under normal use. However, air supplied respirators are required while working in confined spaces with this product. The respiratory protection use must conform with OSHA rules as specified in 29 CFR 1910.134.

VENTILATION	**LOCAL EXHAUST**—Use local exhaust system, if necessary, to prevent the build up of an oxygen deficient atmosphere.
	MECHANICAL (general)—Acceptable
	SPECIAL—None
	OTHER—None

PROTECTIVE GLOVES: Preferred for cylinder handling.

EYE PROTECTION: Select in accordance with OSHA 29 CFR 1910.133.

OTHER PROTECTIVE EQUIPMENT: Metatarsal shoes for cylinder handling. Select in accordance with OSHA 29 CFR 1910.132 and 1910.133.

IX. SPECIAL PRECAUTIONS

CAUTION: High pressure gas. Use piping and equipment adequately designed to withstand pressures to be encountered. Can cause rapid suffocation due to oxygen deficiency. Store and use with adequate ventilation. Close valve when not in use and when empty.

MIXTURES: When two or more gases, or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death. Be sure to read and understand all labels and other instructions supplied with all containers of this product. For safety information of general handling of compressed gas cylinders, it is recommended that a copy of pamphlet P-1, "Safe Handling of Compressed Gas in Containers," be obtained from the Compressed Gas Association, Inc., 1725 Jefferson Davis Highway, Suite 1004, Arlington, VA 22202.

OTHER HANDLING AND STORAGE CONDITIONS: Never work on a pressurized system. If there is a leak, close the cylinder valve, blow down the system by venting to a safe place, then repair the leak.

PRAXAIR

GENERAL OFFICES
Praxair, Inc.
39 Old Ridgebury Road
Danbury, CT 06810-5113

UCISCO

A PRAXAIR SERVICE COMPANY

SAFETY PRECAUTIONS FOR NITROGEN

Nitrogen is a stable, colorless, odorless gas. Nitrogen makes up about 78 percent of the atmosphere.

WARNING

Nitrogen can cause rapid asphyxiation and death if released in confined, poorly ventilated areas.

Nitrogen as a liquid or a cold gas may cause severe frostbite to the skin or eyes. Do not touch frosted pipes or valves with bare skin.

Use a pressure-reducing regulator when withdrawing gaseous nitrogen from a cylinder or other high-pressure source.

KEEP EQUIPMENT AREA WELL VENTILATED

Nitrogen is non-toxic, but it can cause rapid asphyxiation in a confined area without adequate ventilation by diluting the oxygen concentration in the air to dangerously low levels. Nitrogen may replace normal air without warning that a non-life supporting atmosphere is developing. Liquid product is of special concern, because a small amount of liquid nitrogen evaporates to create a large amount of gas. Because nitrogen is colorless, odorless and tasteless, it cannot be detected by the human senses. Any atmosphere that does not contain enough oxygen can cause dizziness, unconsciousness, or even death. OSHA regulations define an oxygen deficient atmosphere as one with an oxygen concentration of less than 19.5 percent.

CONFINED SPACES

Never enter any tank, pit other confined area where these gases may be present until it has been purged with air and tested for a breathable atmosphere using a gas analyzer with a 0 to 25% scale. The oxygen content must be between 19.5 and 22 percent. Before entering any equipment that uses nitrogen, be sure all pipes, hoses, or ducts between it and the nitrogen source have been disconnected, blanked or otherwise positively closed off. Closing a valve is NOT a sufficient safety precaution. Monitor the oxygen content of the atmosphere as long as people are in the enclosed space. Persons working in confined spaces must be tethered with lifelines, and an observer must be stationed outside the entrance to continuously monitor their reactions. For further advise on confined space entry, obtain a copy of NIOSH publication 87-113, published by the U.S. Department of Health and Human Services.

NOTICE: Make certain that the information on this handout reaches each person who may use or come in contact with the product described on this handout. This product is for use by trained personnel only. Additional copies of this handout are available from your UCISCO representative. Additional safety publications are listed on page 5 of this pamphlet.

AVOID CONTACT WITH LIQUEFIED GASES

Boiling always occurs when a warm container is filled or ambient temperature objects are placed in the liquid. Stand clear of boiling or splashing liquid and wear proper protective clothing. Never touch uninsulated pipes or vessels containing liquid nitrogen or the cold gas issuing from it. Both can cause severe frostbite, and the skin may adhere to the cold surface. Use tongs to lift objects in and out of the liquid nitrogen.

PROTECT EYES AND SKIN

Liquid nitrogen can be extremely cold. About -290 degrees Fahrenheit. Accidental contact with the liquid, or the cold gas issuing from it, may cause severe frostbite to the eyes or skin. Follow these safety guidelines to protect your eyes and skin: Protect your eyes with safety goggles or face shield. Safety glasses without side shields do not give adequate protection. Cover the skin to prevent contact with the liquid or cold gas, or with cold pipes and equipment. Always wear gloves when handling anything that is, or may have been, in contact with the liquid. Special gloves made for cryogenic work are recommended, but leather gloves, without gauntlet that can be quickly and easily removed, may also be used. Long sleeves are recommended for arm protection. Wear cuffless trousers outside boots or over high top shoes to shed spilled liquid.

NEVER USE CONTAINERS, EQUIPMENT, OR REPLACEMENT PARTS OTHER THAN THOSE SPECIFICALLY DESIGNATED FOR USE IN NITROGEN SERVICE.

Be sure all containers, valves, regulators, hoses, etc. are designed for the intended use.

When handling liquid nitrogen, use only containers specifically designed for holding cryogenic liquids. Such containers are made from materials which can withstand the rapid changes and extreme differences in temperature that result. Even these special containers should be filled slowly to minimize the thermal shock. All such containers should be open or protected by a vent or other relief device which permits the vapors to escape without causing a rise in pressure. Inspect vents regularly to be sure that they are not plugged with ice condensed out of the air. Restricted vents can cause pressure build up which could damage or rupture the container.

NITROGEN, SAFETY PRECAUTIONS

USE PROPER PRESSURE REGULATORS

Prior to attaching a nitrogen regulator, inspect the regulator very carefully for physical damage or contamination and to ensure that it is properly sized and has the correct pressure rating for the intended service. Never use a damaged regulator.

Before attaching the regulator to withdraw gaseous nitrogen product, crack open the nitrogen supply valve for a moment to blow out any dust or dirt that might have accumulated in the nitrogen valve outlet. Connect the regulator to the valve and back out the pressure adjusting screw until it turns freely. While standing to one side of the regulator, open the nitrogen supply valve very slightly and very slowly to allow the gauge to move up to nitrogen supply pressure. Then, open the nitrogen supply valve all the way.

EXERCISE CAUTION WHEN DISPOSING OF WASTE GAS OR LIQUID

Gaseous nitrogen should be released only in an open outdoor area. Liquid nitrogen should be discharged into a remote, outdoor, gravel filled pit where it will evaporate safely.

FIRST AID

If symptoms of asphyxia such as headache, drowsiness, dizziness, excitation, excess salivation, vomiting, or unconsciousness are observed, remove the victim to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Call a physician promptly.

If exposure to cryogenic liquids or cold gases occurs, restore tissue to normal body temperature (98.6 degrees F) as rapidly as possible, then protect the injured tissue from further damage and infection. Call a physician immediately. Rapid warming of the affected part is best achieved by bathing it in warm water. The water temperature should not exceed 105 degrees F, and under no circumstances should the frozen part be rubbed, either before or after rewarming. If the eyes are involved, flush them thoroughly with warm water for at least 15 minutes. In case of massive exposure, remove clothing while showering with warm water. The patient should not drink alcohol or smoke. Keep warm and at rest. Call a physician promptly.

Refer to the Material Safety Data Sheets (MSDS), for detailed descriptions of the symptoms of overexposure and the first aid to be used.

PIPING SYSTEMS

Working safely with nitrogen requires safe piping systems, proper control equipment, and safe handling of any containers involved. The purpose of this handout is not to discuss cylinder handling or the design of distribution systems. However, a few of the major safety considerations are given below.

Never install equipment or piping for liquid nitrogen or the cold vapors issuing from it, without consulting someone thoroughly experienced in low temperature work. Piping must be of a material suitable for the type, pressure, and temperature of the gas being handled. Remember, certain materials (e.g., carbon steels) lose ductility and impact strength at cryogenic temperatures. Provision must also be made for the enormous increase in volume as a liquefied gas vaporizes. The entire system must be provided with adequate pressure-relief devices: one should be between each pair of valves where liquid nitrogen or cold vapor could be trapped.

PRAXAIR provides Booklet P-14-033, Guidelines for the Design and Installation of Industrial Gaseous Nitrogen / Argon Distribution Piping Systems to assist you with the design and installation of piping systems.

When installing a piping system, you should observe standards published by the National Fire Protection Association. Mark piping in accordance with American National Standards Institute A 13.1, "Scheme for the Identification of Piping Systems," and label all piping with the name of the gas being carried. You should obtain a copy of the appropriate brochures and be sure that your system meets the recommended standards.

When withdrawing gaseous product from a portable cryogenic liquid container with an integral vaporization coil, do not exceed the manufacturer's recommended withdrawal rates for the container. Excessive gas withdrawal rates may result in discharge of liquid or cold gas which can damage equipment into which the product is flowing.

IMPORTANT

Nitrogen has properties that can cause serious accidents, injuries, and even death if proper precautions and safety practices are not followed. Therefore, during handling and use of nitrogen, or during the operation and maintenance of equipment and systems using nitrogen, be certain to follow the applicable safety precautions described in this handout and in the Material Safety Data Sheets, safety standards, and other literature referenced in this handout. Manufacturer's operating instructions for equipment using nitrogen are to be followed exactly.

HER 01943

EMERGENCY RESPONSE PLANNING

The importance of an effective workplace safety program cannot be overemphasized. Proper planning for emergencies can go a long way to minimize employee injury and property damage.

OSHA requires an emergency response plan for each specific workplace that addresses all potential emergencies that can be expected. This plan must be developed and put into written form. A firm with fewer than 10 employees may communicate the plan orally. Refer to OSHA requirements 29CFR 1910.120 and 29CFR 1910.38(a) for more information.

This guide details the basic things that need to be done in preparation for a workplace emergency. It is intended to assist you. It is not intended as a complete and all-inclusive source.

Consult MSDS's for more details on any hazardous product. Check the labels on any containers. Refer to your state, federal, and local guidelines for handling emergencies and hazardous product.

OSHA publishes many helpful materials on planning for emergencies. To find out what materials are available, call the OSHA Publications Office at 202-219-4667.

Check with UCISCO or PRAXAIR for any information you may need on handling our products. To order MSDS's, call 1-800-PRAXAIR.

The text that follows discusses some of the specifics involved in formulating an emergency response plan.

PLANNING CONSIDERATIONS

The type and extent of any emergency depends on many variables including the type of process, the material handled, the number of employees, and the availability of outside resources.

Some factors to consider regarding potential gas emergencies:

- ☑ The type of gas involved (flammable or nonflammable)
- ☑ The degree of confinement in the area where leaks or spills may occur
- ☑ The capabilities of the ventilation system in the areas where gas is used or stored
- ☑ The area to which vapors would be carried in a gas emergency
- ☑ The probability of containment difficulty based on location circumstances
- ☑ The potential for human exposure
- ☑ How an emergency will be recognized by personnel
- ☑ For each shift, how many employees would need to be evacuated
- ☑ A safe distance away from the plant for evacuated employees
- ☑ A location for safe refuge
- ☑ Who will take charge of an emergency
- ☑ The type of emergency equipment needed
- ☑ Decontamination procedures

EMERGENCY RESPONSE PLAN - OSHA REQUIREMENTS

As a minimum, the plan must include the following elements:

- ☑ Pre-emergency planning
- ☑ Emergency recognition and prevention
- ☑ The preferred means for reporting fires and other emergencies
- ☑ chain of authority
- ☑ Evacuation routes and procedures
- ☑ Safe distances and places of refuge
- ☑ Procedures to be followed by employees who remain to perform or shut down critical operations before they evacuate
- ☑ Fire fighting equipment and emergency equipment
- ☑ emergency medical treatment and first aid
- ☑ Decontamination
- ☑ Names or regular job titles of persons or departments to be contacted for further information or explanation of duties under the plan
- ☑ Critique of response and follow-up

PRE-EMERGENCY PLANNING

The effectiveness of response during emergencies depends on the amount of planning and training performed.

The plan you develop must be reviewed with all employees when it is initially developed and whenever the employee's responsibilities under the plan change or whenever the plan is changed. After a plan is instituted, frequent reviews and updates must be done.

Conduct practice emergency drills so everyone is familiar with the plan and their escape route. These drills should be held at least annually. If possible, Local police and fire departments should participate.

EMERGENCY RECOGNITION AND PREVENTION

OSHA's hazard communication standard requires hazard information to be transmitted by employers to exposed employees. This is to ensure that employees are educated about the hazardous substances in their workplace and are able to recognize what might create a dangerous situation from becoming emergencies and the ability to recognize an emergency when one occurs.

REPORTING FIRES

Each employee must know how to report and emergency, such as using manual pull box alarms, public address systems, and telephones.

Emergency Phone Numbers should be posted on or near telephones, on employees' notice boards, or in other conspicuous locations. The warning plan should be in writing, and management must ensure that each employee knows what it means and what action is to be taken.

ALARMS should be audible or visible to all people in the plant. All employees need to be alerted to emergencies so that they can evacuate or take other action required in the plan. The alarm should be distinctive and recognizable as a signal to evacuate the work area or perform actions required by the Emergency Response Plan.

REFERENCE MATERIAL

MATERIAL SAFETY DATA SHEETS

P-4630 ..... Liquid Nitrogen
P-4631 ..... Gaseous Nitrogen

UCISCO SAFETY PUBLICATIONS AND GUIDELINES

P-14-033 ..... Guidelines for Design and Installation of Industrial Gaseous Nitrogen and Argon Distribution Piping Systems.

COMPRESSED GAS ASSOCIATION (CGA) PUBLICATIONS

P-1 ..... Safe Handling of Compressed Gases in Containers
P-9 ..... The Inert Gases; Argon, Nitrogen, and Helium
P-12 ..... Safe Handling of Cryogenic Liquids
P-14 ..... Accident Prevention on Oxygen Rich and Oxygen Deficient Atmospheres
SB-2 ..... Oxygen Deficient Atmospheres

FEDERAL INFORMATION SOURCE

Federal Information Source
U.S. Department of Commerce
Springfield, VA 22161

NIOSH 87-113 ..... Confined Space Entry
(U.S. Department of Health and Human Services)

EMERGENCY ASSISTANCE

If an emergency arises with a PRAXAIR gas product in the United States, Call:
PRAXAIR Hazardous Materials
Emergency Line
1-800-645-4633
or
Chemical Transportation Emergency Center (CHEMTREC)
1-800-424-9300

IN CANADA, CALL THE CANADIAN HELP HOTLINE:
(514) 640-6400

All numbers can be called 24 hours a day.

The information on this sheet has been extracted from Praxair Form P-3499

UCISCO SALES AND SERVICE CENTERS

HOME OFFICE
222 Pennbright
Suite 300
Houston, Texas 77090-5999
(713) 872-2188

NORTHERN

CHICAGO
P.O. Box 271
2024 North Lafayette Court
Griffith, Indiana 46319
(219) 923-0222

CLEVELAND
Two Summit Park Drive
Suite 450
Independence, Ohio 44131
(216) 573-3627

PHILADELPHIA
P.O. Box 1370
111 Connecticut Drive
Burlington, New Jersey 08016
(609) 386-4466

INSTITUTE
Route 25
c/o PRAXAIR Plant
P.O. Box 730
Institute, West Virginia 25112-0730
(304) 768-7820

SARNIA
1274 Lougar Avenue
Sarnia, Ontario
Canada N7S 5N6
(519) 332-0730

SOUTHWEST

LA PORTE
P.O. Box 1248
200 Strang Road
La Porte, Texas 77571
1-800-824-7264

LOUISIANA
3237 S. Burnside Avenue
Gonzales, Louisiana 70737-1629
(504) 647-9797

TULSA
1335 West 37th Place
Tulsa, Oklahoma 74107
(918) 445-5588

WESTERN

LOS ANGELES
10829 Etiwanda
Fontana, California 92337-6984
(909) 974-5190

SAN FRANCISCO
1950 Loveridge Road
Pittsburg, California 94565
(510) 427-1950

PACIFIC NORTHWEST
4115 Strider Loop
Bellingham, Washington 98226
(360) 734-3955

UTAH
12385 W. Alternate Highway 50
P.O. Box 306
Magna, Utah 84044
(801) 250-0567

EDMONTON
9020 24th Street
Edmonton, Alberta
Canada T6P 1X8
(403) 467-9000

HERCULES
MARINE SERVICES CORPORATION

P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 3271-95

DATE : December 18, 1995

Job No. : 4922-1

Location : Freeport

TO: Dixie Linehaul
7747 Tom Drive
Baton Rouge, LA 70806

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

PO# P7442

Terms : Net 30

FOR:

Service to SC1904 as follows:

12/11/95	Fill nitrogen bottle			
	Journey (2)	4 hr. @	44.25	$177.00
	Total			$177.00

TOTAL AMOUNT DUE $177.00

Post-it® Fax Note 7671	Date 12/18/95	# of pages ▶ 2
To Harvey	From Valerie	
Co./Dept.	Co.	
Phone #	Phone #	
Fax # 238-0475	Fax #	

PHONE: (409) 233-6371

Strength through Experience, Equipment, Know-How

HER 01948

UCISCO, INC.
A PRAXAIR SERVICE COMPANY

THE PLAZA AT COMMERCE PARK NORTH
222 PENNBRIGHT, SUITE 300
HOUSTON, TEXAS 77090-5999 (713) 872-2229

SERVICE AGREEMENT
No. 41509

BILLING INFORMATION
Customer: Dixie Carriers Inc — Customer Code: 1310-01623
Address: 2102 Broadway St.
City: Houston — State: Tx — Zip: 77012 — Phone:
P.O. No. — Tax Exempt No.

JOB LOCATION
City: Freeport — County: Brazoria — State: Tx — Zip: — Tax Code:

DISPATCH INFORMATION
Time & Date Needed: 22:00 12-11-95 — District: 1310
Rate Sch. ☐ — Quotation ☐ No. — No Service ☐
Description of Service: Fill N2 Cylinder On Barge # DSC 1904
Market Served: G ☐ NPS ☐ PCSFT ☐ PCSPL ☐ PCSHX ☑ TT ☐ Other

WARNING
1. PRE-JOB DISCUSSION WAS HELD & SAFETY CHECK LIST COMPLETED. DR Initial
2. CUSTOMER HAS RECEIVED A COPY OF SAFETY PRECAUTIONS. DR Initial
WARNING

HAZARDOUS ☐YES ☐NO	ORIGIN (PROCESS)	IDENTITY/ DESCRIPTION	CHEMICAL CONSTITUENTS	DISPOSAL SITE/ DISPOSITION

The undersigned acknowledges that the information provided above with respect to Wastes (as defined in paragraph 9 of the terms and conditions specified on the reverse side hereof) represents the best knowledge of the Customer with respect to such Wastes. The undersigned further acknowledges that a pre-job discussion was held, a safety check list was completed, and that he has received and read the safety precautions and hereby approves, accepts and authorizes the services described herein to be performed in accordance with the terms and conditions specified on the reverse side of this service agreement. Unless prices are quoted, all prices will be according to UCISCO's rate schedule in effect at the time of the services.

AUTHORIZED SIGNATURE: Roger S. Pettit — TITLE — DATE: 12-11-95

EQUIPMENT	UNIT 1	TYPE	UNIT 2	TYPE
Unit No. & Type	9043	230		
Date & Time Out	12-11-95	19:30		
Date & Time On Site	12-11-95	22:00		
Date & Time Started	12-11-95	22:00		
Date & Time Completed	12-12-95	00:15		
Date & Time In	12-12-95	02:00		
TOTAL N_2 UNIT HOURS	2.14 hrs			
SANDJET RUNS				
Additional Sandjet Runs				
Additional Hours				
Additional Days				
TOTAL N_2 USED (NPS ONLY)				

THIS AREA IS FOR UCISCO ACCOUNTING USE ONLY

EQUIPMENT MILEAGE

Roundtrip Miles From:	Laporte, Tx	
Allowed Miles Per N_2 Unit		
Chargeable Miles	175	× No. of Units 1
TOTAL CHARGEABLE MILES		

TRANSPORT MILEAGE AND TIME

Roundtrip Miles From:		
Allowed Miles Per Transport		
Chargeable Miles		× No. of Transports
TOTAL CHARGEABLE MILES		
Total Transport Time On Site		
Total Chargeable Transport Time		

I hereby acknowledge that the above information is correct and the services have been completed.

Authorized Signature: Roger S. Pettit

Title — Date: 12-11-95

UCISCO Representative: Dave Rice

ADDITIONAL WORK

The undersigned authorizes UCISCO to perform the additional services described here at the "additional charges" price contained in UCISCO's quotation or the price specified. A. Description of additional service

B. Price for additional services ☐ Quotation ☐ Other: (Describe)

Customer Signature — Date

REMARKS: Barge # DSC 1904

REV 4/86

HER 01949

CUSTOMER COPY

*** TRANSMISSION REPORT ***

PRINT TIME 12/19 '95 07:41 ID:HERCULES OFF. FREEPORT 409-233-1568

No.	START TIME	MODE	LOCATION	STORE PAGE	TX PAGE	RX PAGE	TOTAL TIME	CODE
5	12/19 07:39	TX	2380475	ADF	2	0	02'27"	OK

HERCULES
MARINE SERVICES CORPORATION
P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 3271-95
DATE : December 18, 1995
Job No. : 4929-1
Location : Freeport

TO: Dixie Linehaul
7747 Tom Drive
Baton Rouge, LA 70806

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

FOR:

Service to SC1504 as follows:

12/11/95	Fill nitrogen bottle			
	Journey (2)	4 hr. @	44.25	$177.00
	Total			$177.00

TOTAL AMOUNT DUE $177.00.

PHONE: (409) 233-6371

Strength th now-How

HER 01951

UCISCO, INC.

A PRAXAIR SERVICE COMPANY

THE PLAZA AT
222 PENNBRIGHT, SUITE
HOUSTON, TEXAS 77090-5999 (713) 872-2225

SERVICE AGREEMENT
No. 41509

BILLING INFORMATION	Customer	Dixie Services Inc		Customer Code	130-01623
	Address	2102 Broadway St.			
	City	Houston	State Tx Zip	77012	Phone
	P.O. No.				Tax Exempt No.
JOB LOCATION	City	Freeport	County Brazoria	State Tx Zip	Tax Code
DISPATCH INFORMATION	Time & Date Needed	22:00 12-11-95			District 1310
	Rate Sch. ☐		Quotation ☐ No.		No Service ☐
	Description of Service	Fill N2 Cylinder On Barge # MSC 1904			
	Market Served	G ☐ NPS ☐ PCSFT ☐ PCSPL ☐ PCSHX ☐ TT ☐ Other			

WARNING

1. PRE-JOB DISCUSSION WAS HELD & SAFETY CHECK LIST COMPLETED. RR Initial
2. CUSTOMER HAS RECEIVED A COPY OF SAFETY PRECAUTIONS. RR Initial

WARNING

HAZARDOUS ☑ YES ☐ NO	ORIGIN (PROCESS)	IDENTITY/ DESCRIPTION	CHEMICAL CONSTITUENTS	DISPOSAL SITE/ DISPOSITION

The undersigned acknowledges that the information provided above with respect to Wastes (as defined in paragraph 9 of the terms and conditions specified on the reverse side hereof) represents the best knowledge of the Customer with respect to such Wastes. The undersigned further acknowledges that a pre-job discussion was held, a safety check list was completed, and that he has received and read the safety precautions and hereby approves, accepts and authorizes the services described herein to be performed in accordance with the terms and conditions specified on the reverse side of this service agreement. Unless prices are quoted, all prices will be according to UCISCO's rate schedule in effect at the time of the services.

AUTHORIZED SIGNATURE Roger S. Pettit TITLE DATE 12-11-95

EQUIPMENT	UNIT 1	TYPE	UNIT 2	TYPE
Unit No. & Type	9093	230		
Date & Time Out	12-11-95	19:30		
Date & Time On Site	12-11-95	22:00		
Date & Time Started	12-11-95	22:00		
Date & Time Completed	12-12-95	00:15		
Date & Time In	12-12-95	02:00		
TOTAL N_2 UNIT HOURS	2.1/4 hrs			
SANDJET RUNS				
Additional Sandjet Runs				
Additional Hours				
Additional Days				
TOTAL N_2 USED (NPS ONLY)				

THIS AREA IS FOR UCISCO ACCOUNTING USE ONLY

EQUIPMENT MILEAGE

Roundtrip Miles From:	Laporte, Tx
Allowed Miles Per N_2 Unit	
Chargeable Miles	175 × No. of Units 1
TOTAL CHARGEABLE MILES	

TRANSPORT MILEAGE AND TIME

Roundtrip Miles From:	
Allowed Miles Per Transport	
Chargeable Miles	× No. of Transports
TOTAL CHARGEABLE MILES	
Total Transport Time On Site	
Total Chargeable Transport Time	

I hereby acknowledge that the above information is correct and the services have been completed.

Authorized Signature Roger S. Pettit

Title Date 12-11-95

UCISCO Representative Dee Rhea

ADDITIONAL CHARGES

The undersigned authorizes UCISCO to perform the additional services described here at the "additional charges" price contained in UCISCO's quotation or the price specified. A. Description of additional service

B. Price for additional services ☐ Quotation ☐ Other: (Describe)

Customer Signature Date

REMARKS Barge # MSC 1904

REV 4/96

CUSTOMER COPY

HER 01952

JOB WORKSCOPE/BREAKDOWN

JOB NO: 4922 CUSTOMER: Dixie BARGE: SC1904

FOREMAN:	S/T		@36.00	$
	O/T		@51.75	
LEADMAN:	S/T		@33.50	
	O/T		@48.00	
JOURNEY:	S/T		@31.00	
	O/T	4	@44.25	~~88.50~~ 177.00

DISPOSAL: _____ CAL @ .35

MATERIAL: _____ PLUS 20% _____

STOCK MATERIAL: _____ PLUS 20% _____

EQUIP:

COMPRESSOR	@ 44.00	
AIR MOVERS	@ 5.00	
FORKLIFT	@ 20.00	
TUGBOAT	@ 80.00	
STEAM RIG	@ 00.00	
VACUUM	@ 20.00	
HAND HOSE	@ 10.00	
WELDING MACHINE	@ 15.00	
CHERRYPICKER	@ 50.00	
CRANE	@130.00	
FLATBED TRUCK	@ 20.00	
3" GAS PUMP	@ 14.00	
2" STRIP PUMP	@ 12.00	
BUTTERWORTH	@ 10.00	
4" ELECTRIC PUMP	@ 15.00	
WORK BARGE	@ 35.00	
CUTTING RIG	@ 8.00	HER 01953
HAUL OUT	@1100.00/day	

327-1

ARRIVED: _____ COMPLETED: _____ DEPARTED: _____

177.00 MB

PRODUCT: _____ LOAD: _____

~~$88.50~~

HERCULES
MARINE SERVICE CORP.
FREEPORT, TEXAS

FOREMAN'S DAILY TIME REPORT

JOB NO 4922

DATE 12/11/95

CLASS NO. SC 1904

DESCRIPTION OF WORK PERFORMED (BY FOREMAN)

BADGE NO.	NAME	fill nitrogen bottle											TOTAL HOURS
	Sam Pettit 267-74-9445	2											2
	Larry Ballinger	2											
	TOTAL HOURS												2

HER 01954

SIGNED _____ FOREMAN

CODED AND EXTENDED BY _____

APPROVED BY _____

PLANTS DUARTE

HERCULES
MARINE SERVICE CORP.
FREEPORT, TEXAS

FOREMAN'S DAILY TIME REPORT

JOB NO. 4923

DATE 12/11/95

CLASS NO. SC 1904

DESCRIPTION OF WORK PERFORMED (BY FOREMAN)

fill nitrogen bottle

BADGE NO.	NAME												TOTAL HOURS
	Sam Pettit 4 267-74-9445	2										177	2
	LARRY BALLINGER	2											2
	TOTAL HOURS										177	FD	2

SIGNED _____ FOREMAN

CODED AND EXTENDED BY _____

APPROVED BY _____

HER 01955

WHITE - ACCTG. DEPT.

DATE: 12-11-95

EMPLOYEE	JOB DISCRIPTION OVERHEAD	SC 700	SC 1904					TOTAL HOURS
GABRIEL DE LA ROSA	8	2		✓				
DANIEL HERNANDEZ	8	1½		✓				
LUCIO NAJERA	8	2	✓					
JOE OLIVAREZ	4½ ✓							
SAM PETTIT	8	2	✓	✓				
CLAUDIO DUARTE								
JOSE' CASAS								
JUAN RIVERA								
LUPE GOMEZ								
IGNACIO SILVA								
VICTOR GONZALEZ								
RICHARD RODRIQUEZ	4½	1						
TRINO RODRIQUEZ	4½	1						

JOB DISCRIPTION + TIME WORKED:

8 00 AM = 1 00 AM — RICHER-TRINO FAB RELLES & CUT DOUBLERS FOR ENGALES

8 00 PM = 1 00 AM — SAM-JOE REMOVE ARROGH BOLTS ON GAY LEEN INGEN

8 00 AM – 4 30 AM — DELA ROSA, LUCIO, HERNANDEZ FAB EIR LINE ON BARGE CLANER AREA WELD PIPES FAB NIPLES & WELD ALSO REMOVE LINE ON HART POINT AND FAB ANDER OF THE BACUM LINE

7 00 PM – 4 30 PM — SAM INSTALE CUPLING ON GAY LEEN INGEN

(3 00 PM = 6 30 PM — PREPARING & HAUL OUT BARGE SC 700

HER 01956

HERCULES OFFSHORE CO.

INVOICE NO. _____

MARINE REPAIR ORDER No. 4922

MARINE OPERATIONS FACILITY

CUSTOMER P.O. _____

DATE

ORDER WRITTEN: 12/11/95 ETA: 5:30

ARRIVAL:

COMPLETION DATE:

DEPARTURE DATE:

M/V ☐ BARGE ☑ NAME: SC 1904

LOA: WIDTH:

FOREMAN: C. Duarte

LAST PRODUCT:

GAS FREEING YES ☐ NO ☐ CERTIFICATE REQUIRED YES ☐ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE: _____

ON WAYS DATE: _____

CUSTOMER

NAME: Dixie

BILLING ADDRESS:

CITY AND STATE:

PHONE NUMBER:

WORK AUTHORIZED BY: Harvey O/T AUTHORIZED BY:

STOCK MATERIAL ☐ YES ☐ NO

IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

ITEM NUMBERS

1 Fill nitrogen bottle

2

3

4

5

6

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: _____ Date: _____

HER 01957

HERCULES OFFSHORE CO.

INVOICE NO. _____

MARINE REPAIR ORDER No. 11922

MARINE OPERATIONS FACILITY

CUSTOMER P.O. _____

DATE

ORDER WRITTEN: 12/11/95 STA: 5:30

ARRIVAL:

COMPLETION DATE:

DEPARTURE DATE:

M/V ☐ BARGE ☑ NAME: SC 1904

LOA: WIDTH:

FOREMAN: C. Duarte

LAST PRODUCT:

GAS FREEING YES ☐ NO ☐ CERTIFICATE REQUIRED YES ☐ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE: _____

ON WAYS DATE: _____

CUSTOMER

NAME: Dixie

BILLING ADDRESS:

CITY AND STATE:

PHONE NUMBER:

WORK AUTHORIZED BY: Harvey O/T AUTHORIZED BY:

STOCK MATERIAL ☐ YES ☐ NO

IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

ITEM NUMBERS

1 Fill nitrogen bottle - Disco truck arriving approx. 10:20pm

2

3

4

5

6

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: _____ Date: _____

HER 01958